Patent

Case No.: 57211US005



32692 NT TRADEMARK OFFICE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Named Inventor:

SCHARDT, CRAIG R.

Application No.:

10/608930

Group Art Unit:

Unknown

Filed:

June 27, 2003

Examiner:

Unknown

Title:

SILICATE GLASS FOR UPCONVERSION FLUORESCENCE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

CERTIFICATE OF MAILING

9-11-03

Date

igned by: Tom Sanders

Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449, citing references submitted for consideration by the Examiner. A copy of each cited reference is also enclosed. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

It is believed that no fee is due; however, in the event a fee is required, please charge the fee to Deposit Account No. 13-3723.

Respectfully submitted,

September 11, 200

Date

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Office of Intellectual Property Counsel 3M Innovative Properties Company Facsimile No.: 651-736-3833

Substitute for form 1449A/PTO (modified)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number 10/608930

Filing Date June 27, 2003

First Named Inventor Craig R. Schardt

Art Unit Unknown

Examiner Name Unknown

Attorney Case Number 57211US005

as many sheets if necessary)

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	RAUS	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C5	J.R. LINCOLN, et al; "Time Resolved and Site Selective Spectroscopy of Thulium Doped Into Germano- and Alumino-Silicate Optical Fibres and Preforms", <i>Journal of Luminescence</i> (1991); Vol. 50; pp. 297-308
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<u></u>	C7	D.N. MESSIAS, et al; "Blue Energy Upconversion Emission in Thulium-Doped SiO_2 - P_2O_5 Channel Waveguides Excited at 1.064 μ m", <i>IEEE Journal of Quantum Electronics</i> (Dec. 2002); Vol. 38, No. 12; pp. 1647-1650
	C8	A. MORI, et al; "1.5 μm Broadband Amplification by Tellurite-Based EDFAs"; Conference on Optical Fiber Communications, Technical Digest, Postconference Ed. OSA Technical Digest Series (1997); Vol. 6; pp. 371-374; Optical Society of America
	C9	R.L. SHUBOCHKIN, et al; "Er ³⁺ - Tm ³⁺ Co-doped Silica Fiber Laser"; <i>OSA TOPS</i> (1999); Vol. 26 Advanced Solid-State Lasers; pp. 167-171; Optical Society of America
	C10	A.P. OTTO, et al, "Red to Blue Upconversion in Tm-Doped Sol-Gel Silicate Glasses"; Journal of Non-Crystalline Solids (2000); Vol. 265; pp. 176-180
,,,	C11	S. TANABE & E. SNITZER, "Blue Upconversion Characteristics of Thulium-Doped Silica Fiber with High Germania Content"; <i>Japan Journal of Applied Physics</i> (1998); Vol. 37, Suppl., 37-1; pp. 81-83
	C12	M.V.D. VERMELHO, et al; "Efficient and Thermally Enhanced Frequency Upconversion in Yb ³⁺ -Sensitized Tm ³⁺ -Doped Silica-on-Silicon Buried Waveguides Excited at 1.064 μm"; <i>Optical Materials</i> (2001); Vol. 17; pp. 419-423
	C13	X. ZOU, et al; "Mechanisms of Upconversion Fluorescences in Er ³⁺ , Tm ³⁺ Codoped Fluorozircoaluminate Glasses"; <i>Journal of Non-Crystalline Solids</i> (1995); Vol. 181; pp. 100-109

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Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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STATEMENT BY APPLICANT

s many sheets if necessary)

Page 1 of 2

Application Number	10/608930
Filing Date	June 27, 2003
First Named Inventor	Craig R. Schardt
Art Unit	Unknown
Examiner Name	Unknown
Attorney Case Number	57211US005

U.S. Patent Documents							
Exam.	Cite No.	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant		
Init.*		Number-Kind Code (if known)	MM-DD-YYYY		Figures Appear		
	A1	US- 5,388,110	02-07-1995	Snitzer			
	A2	US- 5,426,656	06-20-1995	Tohmon et al			
	А3	US- 6,154,598	11-28-2000	Gavrilovic et al			
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	A5	US- 2002/0021882 A1	02-21-2002	Wyatt et al			
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	A7	US-					
	A8	US-					

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Exam.	Cite No.	Foreign Patent Document		Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages	Translation		
Init.*		Ctry. Code	Number-KindCode (If known)	MM-DD-YYYY	Applicant of Cited Document	or Relevant Figures Appear	(Check if yes)		
	B1	JP	04-349141 /	12-03-1992			X		
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	B5	wo	00/55101 /	09-21-2000					
	В6	wo	03/002475 A1	01-09-2003					
	В7								

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C1	J.R. BONAR, et al; "Blue Light Emission in Thulium Doped Silica-on-Silicon Waveguides", Optics Communications (1 Sept. 1997); Vol. 141, pp. 137-140
	C2	A.F. EL-SHERIF & T.A. KING; "Dynamics and Self-Pulsing Effects in Tm ³⁺ -Doped Silica Fibre Lasers", <i>Optics Communications</i> (15 July 2002); Vol. 208; pp. 381-389
	СЗ	D.C. HANNA, et al; "Frequency Upconversion in Tm- and Yb: Tm-Doped Silica Fibers", <i>Optics Communications</i> (15 Aug. 1990); Vol. 78, No. 2; pp. 187-194
	C4	H. JEONG & K. OH; "Characterization of Amplified Spontaneous Emission Light Source from an Er ³⁺ /Tm ³⁺ Co-doped Silica Fiber"; <i>Conference on Lasers and Electro-Optics, Technical Digest, Postconference Ed.</i> (May 7-12, 2000);TOPS Vol. 39; pp. 544-545; Optical Society of America

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